Get the Best – From the Best

THE HOLE SAW STORY

WHAT IS IT?

The hole saw is a rugged cutting tool designed to cut accurate holes cleanly and efficiently in machinable materials up through 1" thick. It is particularly well suited for cutting large diameter holes in materials when the diameter of the hole, relative to the material thickness, makes it either impractical or impossible to use a standard drill.

A drill cutting a large hole through moderately thin stock tends to seize up on the exit side, tearing the piece loose from the securing clamps. The hole saw is designed to prevent this.

WHY ANDERSON?

The Anderson hole saws are made with a wear-resistant, fast cutting high speed tool steel edge, permanently bonded to the chrome vanadium steel blade by a forge welding process. This blade is in turn welded to a tough and resilient steel back to comprise the entire unit. This construction provides maximum strength with no chance of edge-stripping or shattering.

The knock-out slots allow easy removal of cores. It is of the "follow through" design, so its depth of cut is limited only by the ability of the operator to remove the cores when drilling a deep hole.

WHERE IS IT USED?

Typical operations for hole saws are as follows:

Cutting holes in steel tanks for installing plumbing and valves after tank has been fabricated.

Installing vents for electric or gas clothes driers.

Installing air-conditioning in automobiles.

Cutting holes in tank trucks for the installation of reflectors and/or running lights.

Hole saws will cut steel or cast iron pipe, steel plates, aluminum, copper, brass, stainless steel, wood or plastic.

TIPS TO THE USER

(a) With mandrels No. M24, 44, 45, the hole saw is simply screwed firmly onto the threaded part. The cutting torque will hold it tightly in place. With mandrel No. M45P, the saw should be screwed down to the shoulder and backed off slightly until the two drive pins engage in the holes in the back of the saw.

(b) Lubricating. A good grade of cutting oil should be used to assure cooler cutting, longer blade life and easier operation. Soluble coolants are not recommended since their purpose is cooling rather than lubricating.

(c) Sawing Speeds. The table at right gives recommended cutting speeds and RPMs for various saw sizes and materials.

Anderson

TRU-CIRCLE HOLE SAWS

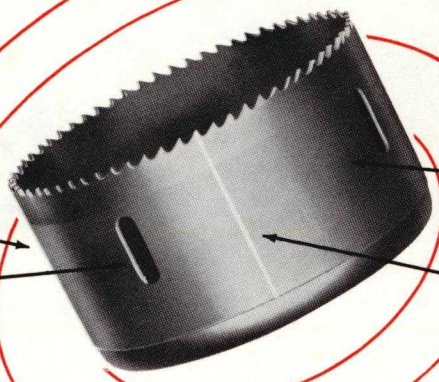
Recommended Cutting Speeds—R.P.M.'s

Size Inches	Mild Steel	Tool and Stainless Steels	Cast Iron	Brass	Aluminum
5/8	550	275	365	730	825
3/4	460	230	300	600	690
7/8	390	195	260	520	585
15/16	370	185	250	500	555
1	350	175	235	470	525
1 1/16	330	160	220	440	490
1 1/8	300	150	200	400	450
1 1/4	275	140	180	360	410
1 3/8	250	125	165	330	375
1 1/2	230	115	150	300	345
1 5/8	210	105	140	280	315
1 3/4	195	95	130	260	295
1 7/8	180	90	120	240	270
2	170	85	115	230	255
2 1/16	165	85	110	220	250
2 1/8	160	80	105	210	240
2 1/4	150	75	100	200	225
2 3/8	140	70	95	190	220
2 1/2	135	65	90	180	205
2 9/16	140	70	95	185	215
2 5/8	130	65	85	170	195
2 3/4	125	60	80	160	185
2 7/8	120	60	80	160	180
3	115	55	75	150	170
3 1/8	110	55	70	140	165
3 1/4	105	50	70	140	155
3 3/8	100	50	65	130	150
3 1/2	95	45	65	130	145

ANDERSON CORPORATION 1039 SOUTHBRIDGE STREET, WORCESTER, MASS.
Telephone **PL**easant **7-4548**

Anderson HIGH SPEED STEEL HOLE SAWS

THE TRU-CIRCLE HOLE SAW


HIGH SPEED TOOL STEEL CUTTING EDGE FOR RAPID CUTTING
TOUGH STEEL BACKING ABSORBS SHOCK
HOLES PERMIT EASY REMOVAL OF CORES
FORGE WELDED BONDING ZONE RESISTS SHOCK
SILVER BRAZED SEAM ASSURES MAXIMUM STRENGTH AND CONCENTRICITY

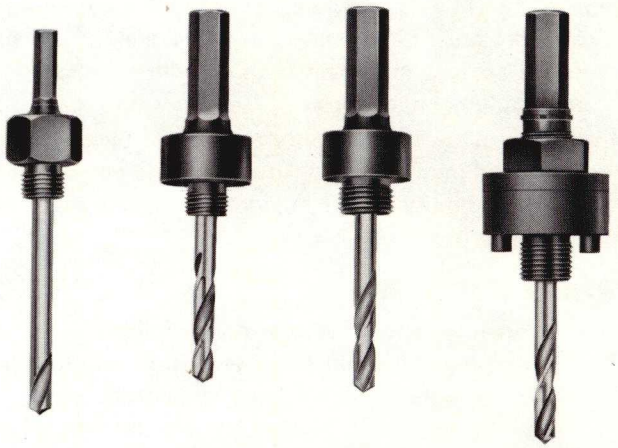
Saw Diameter	Order by Cat. No.	For Pipe Tap (Inches)	For Conduit (Inches)	Approx. Legal Shipping Wt. per C
5/8	A-10			12.5
3/4	A-12		3/8	12.5
7/8	A-14	3/4	1/2	12.5
*15/16	A-15			12.5
1	A-16			12.5
*1 1/16	A-17			18.8
1 1/8	A-18	1	3/4	18.8
1 1/4	A-20			18.8
1 3/8	A-22		1	25.0
1 1/2	A-24	1 1/4		25.0
1 5/8	A-26			25.0
1 3/4	A-28	1 1/2	1 1/4	31.3
1 7/8	A-30			31.3
2	A-32		1 1/2	31.3
*2 1/16	A-33			31.3
2 1/8	A-34			37.5
2 1/4	A-36	2		37.5
2 3/8	A-38			37.5
2 1/2	A-40		2	43.8
*2 9/16	A-41			43.8
2 5/8	A-42			43.8
2 3/4	A-44	2 1/2		50.0
2 7/8	A-46			50.0
3	A-48		2 1/2	50.0
3 1/8	A-50			56.3
3 1/4	A-52	3		56.3
3 3/8	A-54			62.5
3 1/2	A-56			62.5

*Available January, 1960

Special Utility Hole Saws

Saw Diameter	Order By Cat. No.	Applicable Mandrels	For Pipe Tap	For Conduit (Inches)	Approx. Legal Shipping Wt. Per C
1 1/4	A-204	M24, M44	—	—	18.8
1 3/8	A-224	M24, M44	—	1	25.0
1 1/2	A-244	M24, M44	1 1/4	—	25.0

MANDRELS for Anderson Hole Saws



Diameters of 5/8 through 1 1/8—use M24 mandrels for light, and M44 for heavy cutting.

Diameters of 1 1/4 through 3 1/2—use M45 mandrels for light, and M45P (pin-drive) for heavy cutting.

The pin-drive mandrel employs a unique driving arrangement to the saw. It provides a positive floating drive which assures uniform cutting, eliminates possibility of stripping the threads in heavy cutting, and also makes for easy removal of the saw after heavy cutting, since it is not screwed down more tightly in use. The following table provides additional information:

Mandrel Catalog No.	Saw Diameter	Applicable Hole Saws by Cat. No.	Mandrel Shank Size	Thread Size
M24	5/8"–1 1/8"	A10–A18	1/4	1/2–20
M44	5/8"–1 1/8"	A10–A18	1/2	1/2–20
M45	1 1/4"–3 1/2"	A20–A56	1/2	5/8–18
M45P	1 1/4"–3 1/2"	A20–A56	1/2	5/8–18

Pilot Drill Catalog No.	Mandrel Catalog No.	Type Steel
PDC	M24 only	Carbon
PDS	M44, 45, 45P	High Speed Steel

Anderson HIGH SPEED HOLE SAWS

Price List and Terms

Effective September 28, 1959

HOLE SAWS

No.	Price	Approx. Legal Shipping Wt. Lbs./100
A-10	$2.60	12.5
A-12	2.60	12.5
A-14	2.60	12.5
*A-15	2.60	12.5
A-16	2.60	12.5
*A-17	2.60	18.8
A-18	2.60	18.8
A-20	3.00	18.8
A-22	3.00	25.0
A-24	3.00	25.0
A-26	3.00	25.0
A-28	4.00	31.3
A-30	4.00	31.3
A-32	4.00	31.3
*A-33	4.00	31.3
A-34	4.00	37.5
A-36	4.00	37.5
A-38	4.00	37.5
A-40	4.00	43.8
*A-41	5.00	43.8
A-42	5.00	43.8
A-44	5.00	50.0
A-46	5.00	50.0
A-48	5.00	50.0
A-50	5.00	56.3
A-52	5.30	56.3
A-54	5.30	62.5
A-56	5.30	62.5

*Available January, 1960

SPECIAL UTILITY HOLE SAWS

A-204	3.00	18.8
A-224	3.00	25.0
A-244	3.00	25.0

MANDRELS

No.	Price	Approx. Legal Shipping Wt. Lbs./100
M-24	$1.98	18.8
M-44	2.20	25.0
M-45	2.20	25.0
M-45P	4.80	56.3
PDC	.50	4.1/c
PDS	.99	5.0/c

FREIGHT ALLOWANCE:

All shipments F.O.B. Worcester, Mass. Full freight allowed via our normal carrier on single orders shipped to one destination at one time weighing 100 lbs. or more. Customer to absorb additional charges for air freight, express, etc. when such routing is at customer's request.

MINIMUM ORDER VALUE:

$15.00 list. Orders under that value will have a service charge of $1.00 added to the invoice.

TERMS:

Net cash, 30 days, 2% discount for payment as follows: bills dated the 1st to the 15th inclusive, if paid by 25th of the month. Bills dated the 16th through the last day of the month if paid on 10th prox. No discount allowed on freight or special handling charges.

ANDERSON CORPORATION • Worcester, Massachusetts

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DP-9-59-15M